Performance Data Sheet

RKA5518EXV

General Information

Model	RKA5518EXV	**Refrigerant**	R-22
Test Condition	ASHRAE	**Performance Test Voltage**	265V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	PSC

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-15	Btu/h	6430	6050					
	Watts	761	834					
	Amps	2.70	3.01					
	Lb/h	82.7	81.0					
-10	Btu/h	7110	6680	6280				
	Watts	780	858	935				
	Amps	2.75	3.09	3.42				
	Lb/h	90.9	89.0	87.2				
-5	Btu/h	7910	7450	6990	6560			
	Watts	798	881	965	1050			
	Amps	2.81	3.17	3.53	3.90			
	Lb/h	101	98.5	96.5	94.5			
0	Btu/h	8840	8330	7830	7340	6880		
	Watts	816	904	994	1080	1170		
	Amps	2.87	3.25	3.64	4.03	4.43		
	Lb/h	112	110	107	105	103		
5	Btu/h	9900	9340	8790	8250	7720		
	Watts	834	927	1020	1120	1220		
	Amps	2.94	3.34	3.75	4.16	4.58		
	Lb/h	124	122	120	117	115		
10	Btu/h	11100	10500	9860	9270	8690	8120	7570
	Watts	853	950	1050	1150	1250	1360	1470
	Amps	3.01	3.43	3.86	4.29	4.73	5.19	5.65
	Lb/h	138	136	133	131	128	126	123
15	Btu/h	12400	11700	11100	10400	9760	9130	8510
	Watts	872	973	1080	1180	1290	1400	1520
	Amps	3.08	3.52	3.97	4.42	4.89	5.36	5.84
	Lb/h	154	151	148	146	143	140	138
20	Btu/h	13800	13100	12400	11700	11000	10300	9570
	Watts	891	995	1100	1210	1330	1450	1570
	Amps	3.15	3.62	4.08	4.56	5.04	5.53	6.03
	Lb/h	170	168	165	162	159	156	154

25	Btu/h	15400	14600	13800	13000	12300	11500	10700
	Watts	910	1020	1130	1240	1360	1490	1610
	Amps	3.23	3.71	4.20	4.69	5.18	5.69	6.21
	Lb/h	188	186	183	180	177	174	171
30	Btu/h	17000	16200	15400	14500	13700	12800	12000
	Watts	929	1040	1150	1270	1400	1520	1660
	Amps	3.31	3.81	4.31	4.81	5.33	5.85	6.39
	Lb/h	208	205	202	199	196	192	189
35	Btu/h	18800	17900	17000	16100	15200	14300	13400
	Watts	949	1060	1180	1300	1430	1560	1700
	Amps	3.39	3.90	4.42	4.94	5.47	6.01	6.56
	Lb/h	228	225	222	219	216	213	209
40	Btu/h	20800	19800	18800	17800	16800	15800	14800
	Watts	969	1080	1200	1330	1460	1600	1740
	Amps	3.47	4.00	4.53	5.06	5.60	6.16	6.72
	Lb/h	250	247	244	241	238	234	231
45	Btu/h	22800	21800	20700	19600	18600	17500	16400
	Watts	989	1100	1230	1350	1490	1630	1780
	Amps	3.55	4.09	4.63	5.18	5.73	6.30	6.88
	Lb/h	273	270	267	264	261	257	254
50	Btu/h	25000	23900	22700	21600	20400	19300	18100
	Watts	1010	1130	1250	1380	1520	1660	1810
	Amps	3.63	4.18	4.73	5.29	5.86	6.44	7.03
	Lb/h	298	295	292	288	285	281	278
55	Btu/h	27300	26100	24900	23600	22400	21200	19900
	Watts	1030	1150	1270	1400	1540	1690	1850
	Amps	3.70	4.26	4.83	5.40	5.98	6.56	7.17
	Lb/h	323	320	317	314	310	307	303

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.307998E+04	1.462749E+02	-3.686951E-01	1.209193E+02
C2	2.539007E+02	4.794530E-01	-2.327449E-02	2.428920E+00
C3	-5.167688E+01	7.901639E+00	4.543231E-02	6.148236E-02
C4	2.998777E+00	6.726281E-02	2.749117E-04	2.526707E-02
C5	-4.941526E-01	-1.011790E-02	4.491754E-04	1.487558E-03
C6	-4.854407E-02	6.477075E-03	-9.429991E-05	-3.094519E-03
C7	-3.486572E-04	4.098370E-05	-8.609470E-07	-3.114377E-05
C8	-6.048868E-03	-8.116926E-04	-2.307563E-06	4.039163E-05
C9	-2.511344E-03	6.241141E-04	1.972965E-08	-2.756054E-05
C10	4.028815E-04	-7.391301E-06	4.051242E-07	1.114728E-05

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature